

TGGGGG" 64620360

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1   1 ACA GTC AGC CGC ATG GCT CCC CTG TGC CCC AGC CCC TGG CTC CCT CTG   12
1   48                                     L   P   L   48

13  L   I   P   A   P   A   P   G   L   T   V   Q   L   L   L   S   28
49  TTG ATC CCG GCC CCT GCT CCA GGC CTC ACT GTG CAA CTG CTG CTG TCA   96

29  L   L   L   L   M   P   V   H   P   Q   R   L   P   R   M   Q   44
97  CTG CTG CTT CTG ATG CCT GTC CAT CCC CAG AGG TTG CCC CGG ATG CAG   144

45  E   D   S   P   L   G   G   G   S   S   G   E   D   D   P   L   60
145 GAG GAT TCC CCC TTG GGA GGA GGC TCT TCT GGG GAA GAT GAC CCA CTG   192

61  G   E   E   D   L   P   S   E   E   D   S   P   R   E   E   D   76
193 GGC GAG GAG GAT CTG CCC AGT GAA GAG GAT TCA CCC AGA GAG GAG GAT   240

77  P   P   G   E   E   D   L   P   G   E   E   D   L   P   G   E   92
241 CCA CCC GGA GAG GAG GAT CTA CCT GGA GAG GAT CTA CCT GGA GAG   288

93  E   D   L   P   E   V   K   P   K   S   E   E   E   G   S   L   108
289 GAG GAT CTA CCT GAA GTT AAG CCT AAA TCA GAA GAA GAG GGC TCC CTG   336

109 K   L   E   D   L   P   T   V   E   A   P   G   D   P   Q   E   124
337 AAG TTA GAG GAT CTA CCT ACT GTT GAG GCT CCT GGA GAT CCT CAA GAA   384

125 P   Q   N   A   H   R   D   K   E   G   D   D   Q   S   H   140
385 CCC CAG AAT AAT GCC CAC AGG GAC AAA GAA GGG GAT GAC CAG AGT CAT   432

141 W   R   Y   G   G   D   P   P   W   P   R   V   S   P   A   C   156
433 TGG CGC TAT GGA GGC GAC CCG CCC TGG CCC CGG GTG TCC CCA GCC TGC   480

157 A   G   R   F   Q   S   P   V   D   I   R   P   Q   L   A   A   172
481 GCG GGC CGC TTC CAG TCC CCG GTG GAT ATC CGC CCC CAG CTC GCC GCC   528

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FIG.-1A

FIG. 1B

173	F	C	P	A	L	R	P	L	E	L	L	G	F	Q	L	P	188
529	TTC	TGC	CCG	GCC	CTG	CGC	CCC	CTG	GAA	CTC	CTG	GGC	TTC	CAG	CTC	CCG	576
189	P	L	P	E	L	R	L	R	N	N	G	H	S	V	Q	L	204
577	CCG	CTC	CCA	GAA	CTG	CGC	CTG	CGC	AAC	AAT	GGC	CAC	AGT	GTG	CAA	CTG	624
205	T	L	P	P	G	L	E	M	A	L	G	P	G	R	E	Y	220
625	ACC	CTG	CCT	CCT	GGG	CTA	GAG	ATG	GCT	CTG	GGT	CCC	GGG	CGG	GAG	TAC	672
221	R	A	L	Q	L	H	L	H	W	G	A	A	G	R	P	G	236
673	CGG	GCT	CTG	CAG	CTG	CAT	CTG	CAC	TGG	GGG	GCT	GCA	GGT	CGT	CCG	GGC	720
237	S	E	H	T	V	E	G	H	R	F	P	A	E	I	H	V	252
721	TCG	GAG	CAC	ACT	GTG	GAA	GGC	CAC	CGT	TTC	CCT	GCC	GAG	ATC	CAC	GTG	768
253	V	H	L	S	T	A	F	A	R	V	D	E	A	L	G	R	268
769	GTT	CAC	CTC	AGC	ACC	GCC	TTT	GCC	AGA	GTT	GAC	GAG	GCC	TTG	GGG	CGC	816
269	P	G	G	L	A	V	L	A	A	F	L	E	E	G	P	E	284
817	CCG	GGA	GGC	CTG	GCC	GTG	TTG	GCC	GCC	TTT	CTG	GAG	GAG	GGC	CCG	GAA	864
285	E	N	S	A	Y	E	Q	L	L	S	R	L	E	E	I	A	300
865	GAA	AAC	AGT	GCC	TAT	GAG	CAG	CTG	TTG	TCT	CGC	TTG	GAA	GAA	ATC	GCT	912
301	E	E	G	S	E	T	Q	V	P	G	L	D	I	S	A	L	316
913	GAG	GAA	GGC	TCA	GAG	ACT	CAG	GTC	CCA	GGA	CTG	GAC	ATA	TCT	GCA	CTC	960
317	L	P	S	D	F	S	R	Y	F	Q	Y	E	G	S	L	T	332
961	CTG	CCC	TCT	GAC	TTC	AGC	CGC	TAC	TTC	CAA	TAT	GAG	GGG	TCT	CTG	ACT	1008
333	T	P	P	C	A	Q	G	V	I	W	T	V	F	N	Q	T	348
1009	ACA	CCG	CCC	TGT	GCC	CAG	GGT	GTC	ATC	TGG	ACT	GTG	TTT	AAC	CAG	ACA	1056

FIG. 1B

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349 V M L S A K Q L H T L S D T L W 364  
 1057 GTG ATG CTG AGT GCT AAG CAG CTC CAC ACC CTC TCT GAC ACC CTG TGG 1104  
 365 G P G D S R L Q L N F R A T Q P 380  
 1105 GGA CCT GGT GAC TCT CGG CTA CAG CTG AAC TTC CGA GCG ACG CAG CCT 1152  
 381 L N G R V I E A S F P A G V D S 396  
 1153 TTG AAT GGG CGA GTG ATT GAG GCC TCC TTC CCT GCT GGA GTG GAC AGC 1200  
 397 S P R A A E P V Q L N S C L A A 412  
 1201 AGT CCT CGG GCT GCT GAG CCA GTC CAG CTG AAT TCC TGC CTG GCT GCT 1248  
 413 G D I L A L V F G L L F A V T S 428  
 1249 GGT GAC ATC CTA GCC CTG GTT TTT GGC CTC CTT TTT GCT GTC ACC AGC 1296  
 429 V A F L V Q M R R Q H R R G T K 444  
 1297 GTC GCG TTC CTT GTG CAG ATG AGA AGG CAG CAC AGA AGG GGA ACC AAA 1344  
 445 G G V S Y R P A E V A E T G A \* 460  
 1345 GGG GGT GTG AGC TAC CGC CCA GCA GAG GTA GCC GAG ACT GGA GCC TAG 1392  
 1393 AGG CTG GAT CTT GGA GAA TGT GAG AAG CCA GCC AGA GGC ATC TGA GGG 1440  
 1441 GGA GCC GGT AAC TGT CCT GTC CTC ATT ATG CCA CTT CCT TTT AAC 1488  
 1489 TGC CAA GAA ATT TTT TAA AAT AAA TAT TTA TAA T 1522

FIG.-1C

FIG.-1

FIG.-1A

FIG.-1B

FIG.-1C

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1	ggatcctgtt	gactcgtgac	cttacccca	accctgtgct	ctctgaaaca	tgagctgtgt
61	ccactcaggg	ttaaatggat	taagggcggg	gcaagatgtg	ctttgttaaa	cagatgccttg
121	aaggcagcat	gctcgttaag	agtcatacacc	aatccctaata	ctcaagtaata	cagggacaca
181	aacactgcgg	aagccgcgag	ggtcctctgc	ctagggaaaac	cagagacctt	tgttcacttg
241	tttatctgac	cttccctcca	ctattgtcca	tgaccctgcc	aatccccct	ctgtgagaaa
301	cacccaagaa	ttatcaataa	aaaaataaat	ttaaaaaaa	aatacaaaa	aaaaaaaaa
361	aaaaaaaaa	gacttacgaa	tagttattga	taaatgaata	gctatggta	aagccaagta
421	aatgatcata	ttcaaaaacca	gacggccatc	atcacagctc	aagtctacct	gatttgatct
481	ctttatcatt	gtcatctctt	ggattcacta	gattagtcat	catcctcaaa	attctcccc
541	aagttctaata	tacgttccaa	acatttaggg	gttacatgaa	gcttgaacct	actaccttct
601	ttgcttttga	gccatgagtt	gtaggaatga	tgagtttaca	ccttacatgc	tggggattaa
661	tttaaaacttt	acctctaagt	cagttgggta	gcctttggct	tatttttgta	gctaattttg
721	tagttaaatgg	atgcactgtg	aatcttgcta	tgatagtttt	cctccacact	ttgccactag
781	gggtaggtag	gtactcagtt	ttcagtaatt	gcttacctaa	gaccctaagc	cctatttctc
841	ttgtactggc	ctttatctgt	aatatgggca	tatttaatac	aataataatt	ttggagtttt
901	tttgtttgtt	tgtttgtttg	tttttttgag	acggagtctt	gcatctgtca	tgcccaggct
961	ggagtagcag	tggtgccatc	tcggctcact	gcaagctcca	cctccgagt	tcacgccatt
1021	ttcctgcctc	agcctcccga	gtagctggga	ctacaggcgc	cgcaccat	gcccggctaa
1081	ttttttgtat	ttttggtaga	gacgggggtt	caccgtgtta	gccagaatgg	tctcgatctc
1141	ctgacttcgt	gatccaccgc	cctcggcctc	ccaaagtctt	gggatcacag	gtgtgagcca
1201	ccgcacctgg	ccaatttttt	gagtccttta	aagtaaaaaa	atgtcttgta	agctgggtaac
1261	tatggtacat	ttccttttat	taatgtggtg	ctgacgggtca	tataggttct	tttgagtttg
1321	gcatgcatat	gctacttttt	gcagtccttt	cattacattt	ttctctcttc	atttgaagag
1381	catgttatat	cttttagctt	cacttggctt	aaaaggttct	ctcattagcc	taacacagtg
1441	tcattgttgg	taccacttgg	atcataagtg	gaaaaacagt	caagaaatg	cacagtaata
1501	cttgtttgta	agagggatga	ttcaggtgaa	tctgacacta	agaaactccc	ctacctgagg
1561	tctgagattc	ctctgacatt	gctgtatata	ggctttttct	ttgacagcct	gtgactgcgg
1621	actatttttc	ttaaagcaaga	tatgctaaag	ttttgtgagc	ctttttccag	agagagggtct
1681	catatctgca	tcaagtgaga	acataataatg	tctgcatggt	tccatatctc	aggaaatggtt
1741	gcttgtgttt	tatgctttta	tatagacagg	gaaacttggt	cctcagtgac	ccaaaagagg
1801	tgggaattgt	tattggatat	catcatgggc	ccacgctttc	tgaccttgga	aacaattaa
1861	ggttcataat	ctcaattctg	tcagaattgg	tacaagaaat	agctgctatg	tttcttgaca
1921	ttccacttgg	taggaaataa	gaatgtgaaa	ctcttcagtt	ggtgtgtgtc	cct?gttttt

FIG. 2B

1981 ttgcaatttc cttcttactg tgtaaaaaa aagtatgata ttgtcttgag aggtgaggca  
 2041 ttcttaataca tgatctttaa agatcaataa tataatcctt tcaaggatta tgtctttatt  
 2101 ataataaaga taatttgtct ttaacagaat caataatata atcccttaaa ggattatatac  
 2161 ttgtctgggc gcagtggctc gctacttct atattatctt tccagcact ttgggtggcc aagtggaag  
 2221 gatcaaatctt gctacttct gctacttct atattatctt ctaagcaga attcatctct cttccctcaa  
 2281 tatgatgata ttgacagggt ttgacctcac tctactagatt gtgagctcct gctcagggca  
 2341 ggtagcgttt ttgttttttg tttttgtttt tcttttttga gacagggctt tgctctgtca  
 2401 ccaggccag agtgaatgg tacagtctca gctcactgca gcctcaaccg cctcggctca  
 2461 aaccatcatc ccatttcagc ctcttgagta gctgggacta caggcacatg ccattacacc  
 2521 tggctaattt ttgttattt ctagttaga cagggtttgg ccatgttgcc cgggctggc  
 2581 tcgaactcct ggactcaagc aatccaccca cctcagcctc ccaaatgag ggaccgtgtc  
 2641 ttattcatctt ccatgtcctt agtccatagc cctcagcctc acctatggtg gtactaaata  
 2701 aatatctgtt gaatgcaata gtaatatgca tttcaggag caagaactag attaacaag  
 2761 gtggtaaaag gtttgagaa aaaaataata gtttaatttg gctagagtat gaggagagt  
 2821 agtaggagac aagatggaaa ggtctcttgg gcaaggtttt gaaggaagt ggaagtcaga  
 2881 agtacacaat gtgcataatc ttgcaataat aatataggtt aaacctatca gagccctct gacacataca  
 2941 gagtaaatgt ttgaaaaata aatataggtt aaacctatca gagccctct ctacacctcg  
 3001 ctgtcttttc attcaagctc aagtttgtct ccacataacc cattacttaa ctacacctcg  
 3061 ggctccccta gcagcctgcc ctacctttt acctgcttc ttggtgagtc aggatgtat  
 3121 acatgagctg ctttccctct cagccagagg acatggggggg cccagctcc cctgcctttc  
 3181 cccttctgtg cctggagctg ggaagcaggc cagggttagc tgaggctggc tggcaagcag  
 3241 ctgggtggtg ccaggagag cctgcatagt gccagggtgt gccttgggtt ccaagctagt  
 3301 ccatggcccc gataaccttc tgcctgtgca cacacctgcc cctcactcca ccccatcct  
 3361 agcttttggtg ttgggggagag ggcacagggc cagacaaaacc tgtgagactt tggctccatc  
 3421 tctgcaaaag ggcgctctgt gagtacacct gctccctcc aggttgctc ctccccacc  
 3481 cagctctcgt ttccaatgca cgtacagccc gtacacaccg tgtgctggga caccctcag  
 3541 TCAGCCGCAT GGCTCCCTG TGCCCCAGCC CCTGGCTCCC TCTGTTGATC CCGGCCCTG  
 3601 CTCCAGGCCT CACTGTGCA CACTGTGCT CACTGTGCT TCTGGTGCCT GTCCATCCCC  
 3661 AGAGGTTGCC CCGGATGCAG GAGGATTCCC CCTTGGGAGG AGGCTCTTCT GGGGAAGATG  
 3721 ACCCACTGGG CGAGGAGGAT CTGCCCAGTG AAGAGGATTC ACCCAGAGAG GAGGATCCAC  
 3781 CCGGAGAGGA GGATCTACCT GGAGAGGAGG ATCTACCTGG AGAGGAGGAT CTACCTGAAG  
 3841 TTAAGCCCTAA ATCAGAAAGAA GAGGGCTCCC TGAAGTTAGA GGATCTACCT ACTGTTGAGG  
 3901 CTCCCTGGAGA TCCTCAAGAA CCCCAGAATA ATGCCACACAG GGACAAAGAA Ggtaagtgtt

FIG.-2B

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3961 catcaatctc caaatccagg ttccaggagg ttcatgactc cctcccata cccagccta
4021 ggctctgttc actcagggaa gtagggggaga ctgtactccc cacagaagcc cttccagagg
4081 tcccatacca atatcccat cccactctc ggaggtagaa agggacagat gtggagagaa
4141 aataaaaagg gtgcaaaaagg agagaggtga gctggatgag atgggagaga agggggaggc
4201 tggagaagag aaaggatga gaaactgcaga tgagagaaaa aatgtgcaga cagaggaaaa
4261 aaataggtgg agaaggagag tcagagagtt tgaggggaag agaaaaaggaa agcttgggag
4321 gtgaagtggg taccagagac aagcaagaag agctggtaga agtcatctca tcttaggcta
4381 caatgaggaa ttgagaccta ggaagaaggg acacagcagg tagagaaaacg tggcttcttg
4441 actcccaagc caggaatttg gggaaaagggg ttggagacca tacaaggcag agggatgagt
4501 ggggagaaga aagaaggag aagaaagaa tggtgtactc actcatttgg gactcaggac
4561 tgaagtggcc actcactttt tttttttttt tttttgagac aaactttcac ttttgttgcc
4621 caggctggag tgcaatggcg cgatctcggc tcaatgcaac ctccacctcc cgggttcaag
4681 tgatctctct gcctcagcct ctagccaagt agctgcgatt acaggcatgc gccaccacgc
4741 ccggctaatt ttgtatttt tagtagagac ggggtttcgc catgttggtc aggcctggctt
4801 cgaactcctg atctcaggtg atccaaccac cctggcctcc caaagtgcctg ggattatagg
4861 cgtgagccac agcgccctggc ctgaagcagc cactcacttt tacagaccct aagacaatga
4921 ttgcaagctg gtaggattgc tgtttgggcc accagctgc ggtgttgagt ttgggtgcgg
4981 tctcctgtgc ttgacactg gcccgcttaa ggcatttgtt accgtaatg ctcctgtaag
5041 gcatctgcgt ttgtgacatc gttttggtcg ccaggaaggg attggggctc taagcttgag
5101 cggttcatcc ttttcattta tacaggggat GACCAGAGTC ATTGGCGCTA TGGAGgtgag
5161 acaccaccc gctgcacaga cccaatctgg gaaccagct ctgtgatatc cccctacagc
5221 cgtccctgaa cactggtccc gggcggtccc ccgcccgc accgtcccac cccctcacct
5281 ttctaccg ggttccctaa gttcctgacc taggcgtcag acttccctac tatactctcc
5341 caccacagc GACCCGCCCT GGCCTCCAGC GTCCCCAGCC TGCCTCCAGC GCTTCCAGTC
5401 CCCGGTGGAT ATCCGCCCC AGCTGCCCG CTTCTGCCCG GCCCTGCCG CCTTGAACCT
5461 CTGGGGCTTC CAGCTCCCGC CGCTCCAGC ACTGCGCCTG CGCAACAATG GCCACAGTgg
5521 tgagggggtc tccccgcga gacttgggga tggggcgggg cgcagggaa ggaaccgtcg
5581 cgcagtgcct gcccgggggt ggggtggcc ctaccgggctc gggccggctc acttgcctct
5641 ccctacgcag TGCAACTGAC CCTGCCCTCCT GGGCTAGAGA TGGCTCTGGG TCCCGGGCGG
5701 GAGTACCGG CTCTGCAGCT GCATCTGCAC TGGGGGGCTG CAGGTCGTCC GGGCTCGGAG
5761 CACACTGTGG AAGCCACCG TTTCCCTGCC GAGgtgagcg cggactggcc gagaagggc
5821 aaaggagcgg ggcggacggg ggcagagac gtggccctct cctaccctcg tgccttttc
5881 agATCCACGT GGTTCACCTC AGCACCGCCT TTGCCAGAGT TGACGAGGCC TTGGGGCGCC

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FIG.-2C

FIG. 2D

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5941 CGGGAGGGCCT GGCCGTGTTG GCCGCCTTC TGGAGgtacc agatcctgga cacccttac
6001 tccccgctt ccatcccat gctcctccg gactctatcg tggagccaga gaccctacc
6061 cagcaagctc actcagggcc ctggctgaca aactcattca cgcactgttt gtctatttaa
6121 caccactgt gaaccaggca ccagcccca cagccttca acaaggattc tgaagctgta ggtccttgcc
6181 tctaaggagc ccacagccag tgggggaggg tgacatgaca gacacatagg aaggacatag
6241 taaagatggt ggtcacagag gaggtgacac ttaaagcctt cactggtaga aaagaaaagg
6301 aggtgttcac tgcagaggaa acagaatgtg caaagactca gaatatggcc tatttaggga
6361 atggctacat acaccatgat tagaggaggc ccagtaagg gaagggatgg tgagatgcct
6421 gctaggttca ctactcact ttatttatt ttttatttt tatttatttt ttgacagtc tctctgtcgc
6481 ccaggctgga gtgcagtgggt gtgatcttgg gtcaactgcaa ctccggcctc ccgggttcaa
6541 gggattctcc tgcctcagct tcctgagtag ctggggttac aggtgtgtgc caccatgccc
6601 agctaatttt tttttgtatt ttttagtagac aggggtttcac catgttggtc aggcctggctt
6661 caaactcctg gcctcaagtg atccgcctga ctcagcctac caaagtgtg attacaagtg
6721 tgagccaccg tgcctcagca cactcactga ttctttaatg ccagccacac agcacaagt
6781 tcagagaaat gcctccatca tagcatgtca atatgttcat actctaggt tcatgatgtt
6841 cttaacatta ggttcataag caaataaaga aaaaagaata ataaataaaa gaagtggcat
6901 gtcaggacct cacctgaaa gccaacaca gaatcatgaa ggtgaatgca gagtgacac
6961 caacacaaag gtgtatatat ggtttcctgt ggggagtagt tacggaggca gcagtgagtg
7021 agactgcaaa cgtcagaagg gcacgggtca ctgagagcct agtatcctag taaagtgggc
7081 tctctccctc tctctccagc ttgtcattga aaaccagtcc accaagcttg ttggttcgca
7141 cagcaagagt acatagagt tgaataata cataggattt taagagggag acactgtctc
7201 taaaaaaaaa aacaacagca acaaaaaaa gcaacaacca ttacaatttt atgttccctc
7261 agcatctca gagctgagga atgggagagg actatgggaa ccccttcat gtccggcct
7321 tcagccatgg ccctggatac atgcaactcat ctgtcttaca atgtcattcc ccagGAGGG
7381 CCCGAAGAA AACAGTGCTT ATGAGCAGTT GCTGTCTCGC TTGGAAGAAA TCGCTGAGGA
7441 AGgtcagttt gttggtctgg ccactaatct ctgtggccta gttcataaag aatcacctt
7501 tggagcttca ggtctgaggc tggagatggg ctccctccag tgcaggaggg attgaaagcat
7561 gagccagcgc tcatcttgat aataaccatg aagctgacag acacagttac ccgcaaacg
7621 ctgccctacag attgaaaacc aagcaaaaac cgccgggcac ggtggctcac gcctgtaac
7681 ccagcacttt gggaggccaa ggcagggtgga tcacgaggtc aagagatcaa gaccatcctg
7741 gccaacatgg tgaaaaccca tctctactaa aaatacgaaa aaatagccag gcgtggtggc
7801 ggtgacctgt aatcccagct actcgggagg ctgaggcagg agaattggcat gaaccggga
7861 gccagaagt gcagtgagcc gagatcgtgc cactgcactc cagcctgggc aacagagcga

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FIG.-2D

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7921 gactcttgct tcaaaaaaa aaaaaaaa gaaaccacag caaaaccacaa aatgagacaa
7981 aaaaaacaag accaaaaaat ggtgttttggg aattgtcaag gtcaagtctg gagagctaaa
8041 ctttttctga gaactgttta tctttaataa gcatcaaata ttttaacttt gtaaataactt
8101 ttgttggaaa tcgttctctt cttagtcact ctgggtcat tttaatctc acttactcta
8161 ctgacacctt taggtttctg ttatcaata gttatcaata ttacaagt ttattgcatt tcttgtgtctt
8221 gtttttgtata gttttttttt tctcaaatc ttttttttat ctttagtaga gacagggttt caccatatg
8281 tctttttttt tctttttttt tctcaaatc ttttttttat ctttagtaga gacagggttt caccatatg
8341 gccaggctgc tctcaaatc tttttttttt ttttttttat ctttagtaga gacagggttt caccatatg
8401 gggatttcatt tttttttttt tttttttttt ttttttttat ctttagtaga gacagggttt caccatatg
8461 atggtacaca gagttaagag tttttttttt ttttttttat ctttagtaga gacagggttt caccatatg
8521 cctcccttcc ctagtgctc caaagccctg aagtggtctc agagttgagt taccttggct tctgggaggt
8581 caggcctctt ctagtgctc caaagccctg aagtggtctc agagttgagt taccttggct tctgggaggt
8641 agggcctgca cttagtgaag aagtggtctc aagtggtgag ggtggtgagc atgtagatga gacccaaca
8701 gaaactgtat ccctataacc tgaagcttta aggggtgca gtcccaggac tggacatatc TGCACTCCTG
8761 tagatcctct tcacaggctc TCAGCCGCTA CTTCCAATAT GAGGGGTCTC TGACTACACC GCCCTGTGCC
8821 CCTCTGACT CAGGGGTGCA TCTGGACTGT GTTAAACCAG ACAGTGCTAA TGAGTGCTAA GCAGgtggc
8881 CAGGGGTGCA TCTGGACTGT GTTAAACCAG ACAGTGCTAA TGAGTGCTAA GCAGgtggc
8941 ctgggggtgtg tgtggacaca gtgggtgctg ggtggtgctg ggtggtgctg ggtggtgctg ggtggtgctg
9001 caggagaaga aagaaatcaa ggtggtgctg ggtggtgctg ggtggtgctg ggtggtgctg ggtggtgctg
9061 gggaggctga ggtggagaa ggtggtgctg ggtggtgctg ggtggtgctg ggtggtgctg ggtggtgctg
9121 agtgtagacc catctctacc tagtccagc ctatgatccc accactgctt accactgctt accactgctt
9181 gtatgctggc tagtccagc ctatgatccc accactgctt accactgctt accactgctt accactgctt
9241 gaggttgaga ctgtagtgag ctatgatccc accactgctt accactgctt accactgctt accactgctt
9301 atttatttat aaaagaaatc aagaggctgg atggggaata caggagctgg aggggtggagc
9361 cctgaggtgc tgggtgtgag ctggcctggg acccttgttt acccttgttt acccttgttt acccttgttt
9421 ccacactgt ccactgacct ccctagctcc ACACCCCTCTC TGACACCCCTG TGGGACCTG
9481 GTGACTCTCG GCTACAGCTG AACTTCCGAG CGACGCAGCC TTTGAATGGG CGAGTGATTG
9541 AGGCCCTCCTT CCTGTGGA GTGGACAGCA GTCCTCGGC TCCTGAGCCA Ggtacagctt
9601 tgtctggttt ccccccagc agtagtccct tatcctccc tatcctccc tatcctccc tatcctccc
9661 attggtggtc acagcccgc tctcacatct ccttttttctc tccagTCCAG CTGAATTCCT
9721 GCGTGGCTGC TGGtgagtct gccctcctc ttggtcctga tggcaggaga ctccctcagca
9781 ccattcagcc ccagggtgc caatataga gaggcagatc atgggtggga ttccccatt
9841 accccaacc caatataga gaggcagatc atgggtggga ttccccatt

```

FIG. 2E



Time (min)	Temperature (°C)	Pressure (mm Hg)	Flow Rate (ml/min)	Detector Response
0	100	1.0	1.0	0.0
10	100	1.0	1.0	0.0
20	100	1.0	1.0	0.0
30	100	1.0	1.0	0.0
40	100	1.0	1.0	0.0
50	100	1.0	1.0	0.0
60	100	1.0	1.0	0.0
70	100	1.0	1.0	0.0
80	100	1.0	1.0	0.0
90	100	1.0	1.0	0.0
100	100	1.0	1.0	0.0
110	100	1.0	1.0	0.0
120	100	1.0	1.0	0.0
130	100	1.0	1.0	0.0
140	100	1.0	1.0	0.0
150	100	1.0	1.0	0.0
160	100	1.0	1.0	0.0
170	100	1.0	1.0	0.0
180	100	1.0	1.0	0.0
190	100	1.0	1.0	0.0
200	100	1.0	1.0	0.0
210	100	1.0	1.0	0.0
220	100	1.0	1.0	0.0
230	100	1.0	1.0	0.0
240	100	1.0	1.0	0.0
250	100	1.0	1.0	0.0
260	100	1.0	1.0	0.0
270	100	1.0	1.0	0.0
280	100	1.0	1.0	0.0
290	100	1.0	1.0	0.0
300	100	1.0	1.0	0.0
310	100	1.0	1.0	0.0
320	100	1.0	1.0	0.0
330	100	1.0	1.0	0.0
340	100	1.0	1.0	0.0
350	100	1.0	1.0	0.0
360	100	1.0	1.0	0.0
370	100	1.0	1.0	0.0
380	100	1.0	1.0	0.0
390	100	1.0	1.0	0.0
400	100	1.0	1.0	0.0
410	100	1.0	1.0	0.0
420	100	1.0	1.0	0.0
430	100	1.0	1.0	0.0
440	100	1.0	1.0	0.0
450	100	1.0	1.0	0.0
460	100	1.0	1.0	0.0
470	100	1.0	1.0	0.0
480	100	1.0	1.0	0.0
490	100	1.0	1.0	0.0
500	100	1.0	1.0	0.0
510	100	1.0	1.0	0.0
520	100	1.0	1.0	0.0
530	100	1.0	1.0	0.0
540	100	1.0	1.0	0.0
550	100	1.0	1.0	0.0
560	100	1.0	1.0	0.0
570	100	1.0	1.0	0.0
580	100	1.0	1.0	0.0
590	100	1.0	1.0	0.0
600	100	1.0	1.0	0.0
610	100	1.0	1.0	0.0
620	100	1.0	1.0	0.0
630	100	1.0	1.0	0.0
640	100	1.0	1.0	0.0
650	100	1.0	1.0	0.0
660	100	1.0	1.0	0.0
670	100	1.0	1.0	0.0
680	100	1.0	1.0	0.0
690	100	1.0	1.0	0.0
700	100	1.0	1.0	0.0
710	100	1.0	1.0	0.0
720	100	1.0	1.0	0.0
730	100	1.0	1.0	0.0
740	100	1.0	1.0	0.0
750	100	1.0	1.0	0.0
760	100	1.0	1.0	0.0
770	100	1.0		

9901	gctaattgat	tagaatgaag	cttgagaaat	ctcccagcat	ccctctcgca	aaagaatccc
9961	ccccctttt	tttaagata	gggtctcact	ctgtttgccc	caggctgggg	tgttgtggca
10021	cgatcatagc	tactgcagc	ctcgaactcc	taggctcagg	caatccttc	accttagctt
10081	ctcaagcac	tgggactgta	ggcatgagcc	actgtgcctg	gccccaaacg	gcccttttac
10141	ttggcttta	ggaagcaaaa	acggtgctta	tcttaccct	tctcgtgtat	ccaccctcat
10201	ccctggctg	gcctctctg	gagactgagg	cactatgggg	ctgcctgaga	actcggggca
10261	ggggtggtgg	agtgcactga	ggcaggtggt	gaggaactct	gcagaccct	cttccttccc
10321	aaagcagccc	tctctgctct	ccatcgcagg	TGACATCCTA	GCCCTGGTTT	TTGGCCTCCT
10381	TTTTGCTGTC	ACCAGCGTCG	CGTTCCTTGT	GCAGATGAGA	AGGCAGCACA	Ggtattacac
10441	tgacccttcc	ttcaggcaca	agcttccccc	acccttgttg	agtcacttca	tgcaaaagcgc
10501	atgcaaatga	gctgctcctg	ggccagtttt	ctgattagcc	tttcctgttg	tgtacacaca
10561	gAAGGGGAAC	CAAAGGGGGT	GTGAGCTACC	GCCAGCAGA	GGTAGCCGAG	ACTGGAGCCT
10621	AGAGGCTGGA	TCTTGGAGAA	TGTGAGAAGC	CAGCCAGAGG	CATCTGAGGG	GGAGCCGGTA
10681	ACTGTCCTGT	CCTGCTCATT	ATGCCACTTC	CTTTAACTG	CCAAGAAATT	TTTTTAAATA
10741	AATATTTATA	ATAaaatatg	tgttagtcac	ctttgttccc	caaatcagaa	ggaggtattt
10801	gaatttccta	ttactgttat	tagcaccaat	ttagtggtaa	tgcatttatt	ctattacagt
10861	tgggcctcct	tccacacatc	actccaatgt	gttgctcc		

**FIG. 2F**

FIG. 2A

FIG. 2B

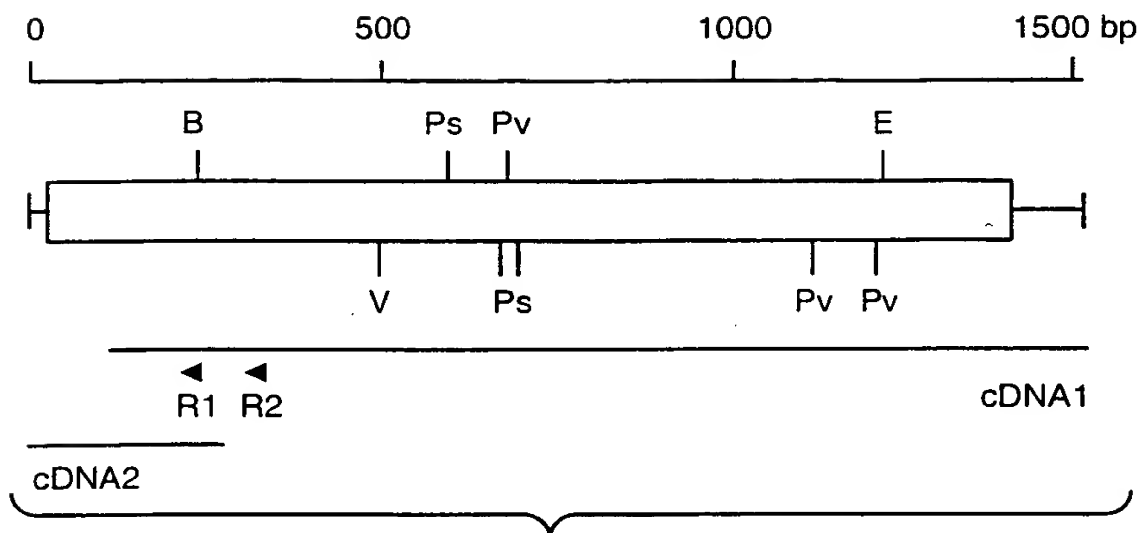
FIG. 2C

FIG. 2D

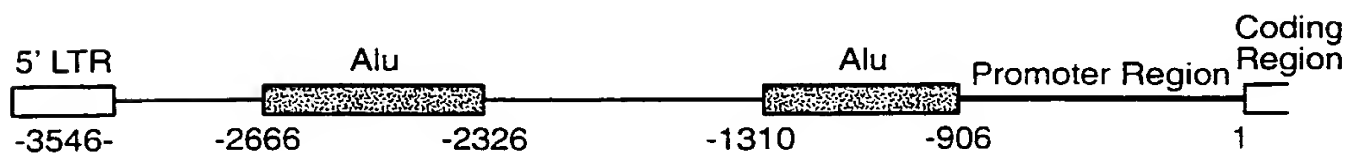
FIG. 2E

FIG. 2F

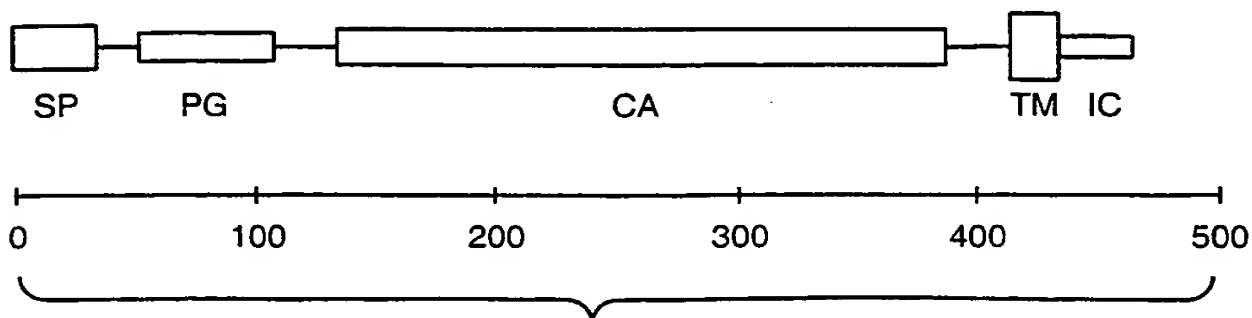
# FIG. 2



**FIG.\_3**



**FIG.\_4**



**FIG.\_8**

FIG. 5

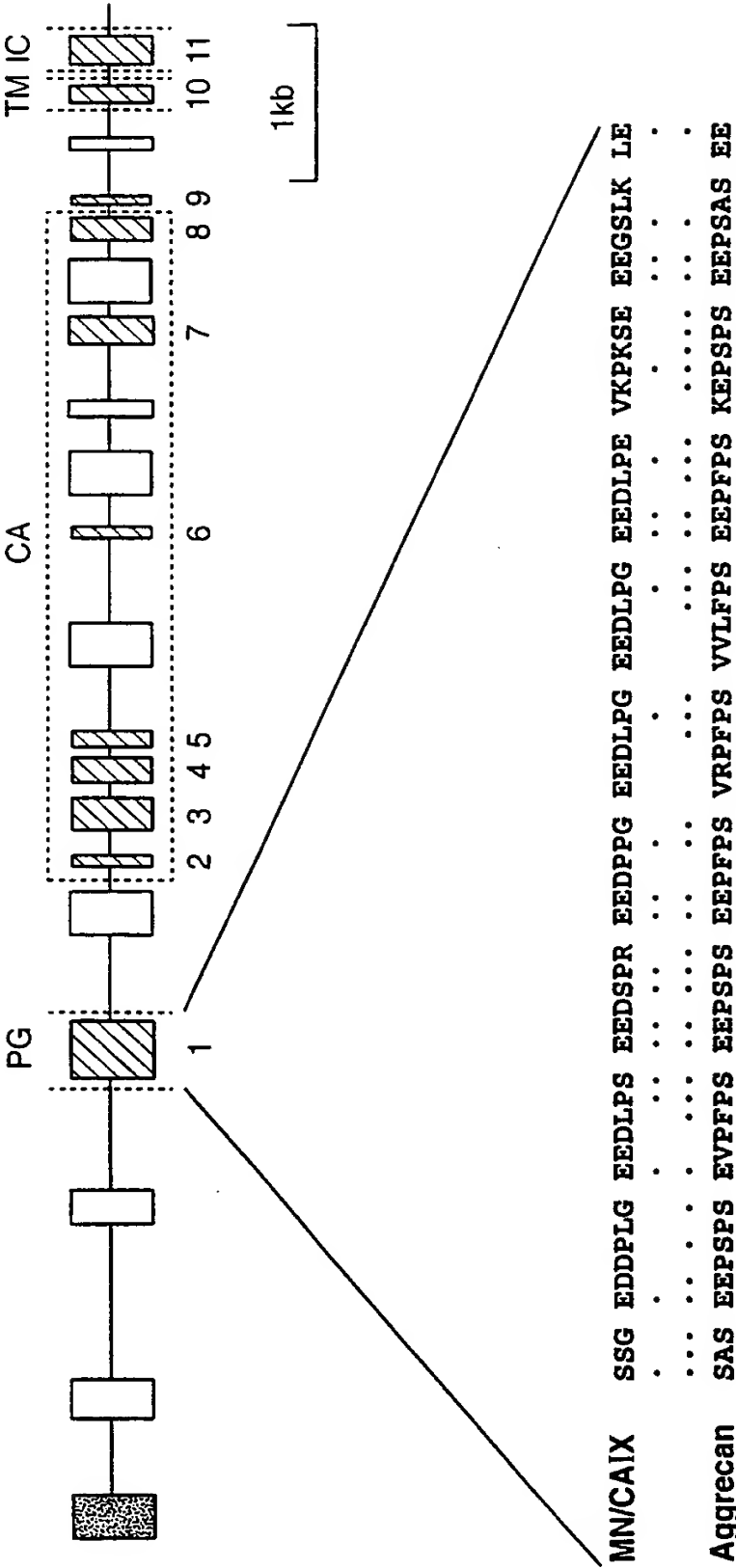


FIG. 5

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-506 CTGTGCTTTTC ATTCAAGCTC AAGTTTGCT CCCACATACC CATTAATA CTCACCCCTCG
-446 GGTCCCTTA GCAGCCTGCC CTACCTCTTT ACCTGCTTCC TGGTGGAGTC AGGGATGTAT
      AP2
-386 ACATGAGCTG CTTTCCCTCT CAGCCAGAGG ACATGGGGG CCCAGCTCC CCGCCTTTC
-326 CCCTTCTGTG CCTGGAGCTG GGAAGCAGGC CAGGTTAGC TGAGGCTGGC TGGCAAGCAG
-266 CTGGGTGGTG CCAGGGAGAG CCTGCATAGT GCCAGGTGGT GCCTTGGGTT CCAAGCTAGT
      VII p53
-206 CCATGGCCCC GATAACCTTC TGCCTGTGCA CACACCTGCC CCTCACTCCA CCCCCTCCT
      VI Inr V
-146 AGCTTTGGTA TGGGGGAGAG GGCACAGGC CAGACAAACC TGTGAGACTT TGGCTCCATC
      IV AP1 III Inr
-86 TCTGCAAAG GCGCTCTGT GAGTCAGCCT GCTCCCCCTCC AGGCTGTCTC CTCCCCCACC
      II AP1 I AP2
-26 CAGCTCTCGT TTCCAATGCA CGTACAGCCC GTACACACCG TGTGCTGGGA CACCCACAG
      ***

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FIG. 6

FIG. 7

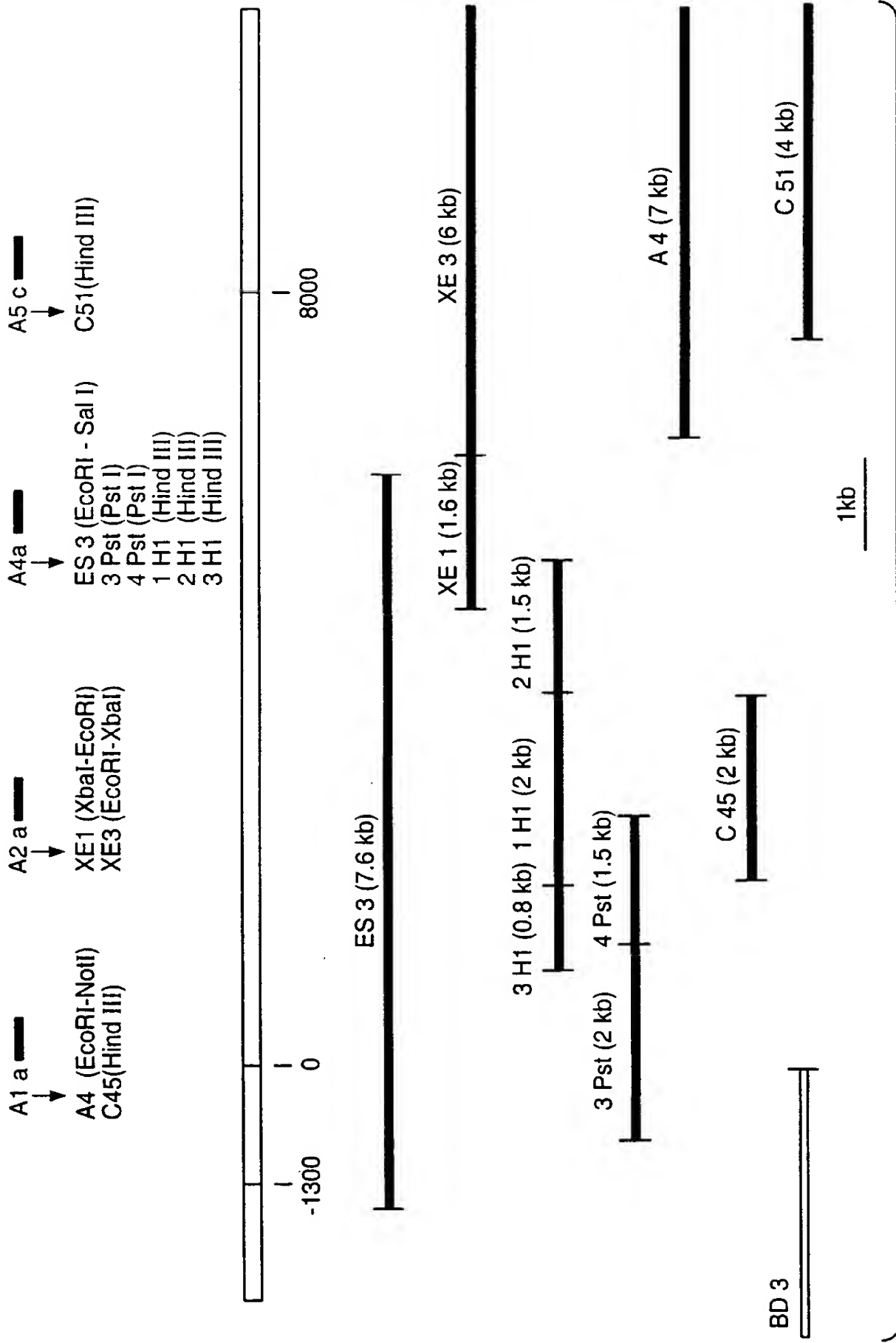


FIG. 7